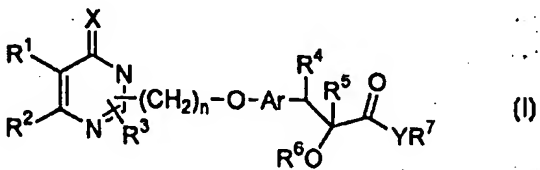




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07D 239/90, 239/36, C07C 237/16, 217/22, 247/04, A61K 31/505	A3	(11) International Publication Number: WO 99/08501 (43) International Publication Date: 25 February 1999 (25.02.99)
(21) International Application Number: PCT/US98/22568 (22) International Filing Date: 26 October 1998 (26.10.98) (30) Priority Data: 60/082,825 23 April 1998 (23.04.98) US (71) Applicants: DR. REDDY'S RESEARCH FOUNDATION [IN/IN]; 7-1-27, Ameerpet, Hyderabad, Andhra Pradesh 500 016 (IN). REDDY-CHEMINOR, INC. [US/US]; 66 South Maple Avenue, Ridgewood, NJ 07450 (US). (72) Inventors: LOHRAY, Vidya, Bhushan; 7-1-27 Ameerpet, Hy- derabad, Andhra Pradesh 500 016 (IN). LOHRAY, Braj, Bhushan; 7-1-27 Ameerpet, Hyderabad, Andhra Pradesh 500 016 (IN). PARASELLI, Rao, Bheema; 7-1-27 Ameer- pet, Hyderabad, Andhra Pradesh 500 016 (IN). RAMANU- JAM, Rajagopalan; 7-1-27 Ameerpet, Hyderabad, Andhra Pradesh 500 016 (IN). CHAKRABARTI, Ranjan; 7-1-27 Ameerpet, Hyderabad, Andhra Pradesh 500 016 (IN). (74) Agents: CORD, Janet, I.; Ladas & Parry, 26 West 61st Street, New York, NY 10023 (US) et al.	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims</i> <i>and to be republished in the event of the receipt of amendments.</i> <i>Before the expiration of the time limit referred to in Article</i> <i>21(2)(a) on the request of the applicant.</i> (88) Date of publication of the international search report: 15 April 1999 (15.04.99)	
(54) Title: NEW HETEROCYCLIC COMPOUNDS AND THEIR USE IN MEDICINE, PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM <div style="text-align: center;">  <p>(I)</p> </div> (57) Abstract <p>The present invention relates to novel antiobesity and hypocholesterolemic compounds, their derivatives, their analogs, their tautomeric forms, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. More particularly, the present invention relates to novel β-aryl-α-oxysubstituted alkylcarboxylic acids of general formula (I), their derivatives, their analogs, their tautomeric forms, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them.</p>		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/22568

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C07D239/90 C07D239/36 C07C237/16 C07C217/22 C07C247/04
A61K31/505

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C07D C07C A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 41097 A (DR.REDDY) 6 November 1997 see page 49 - page 55; claims -----	1,25,26
A	WO 94 01420 A (SMITH KLINE BEECHAM) 20 January 1994 cited in the application see the whole document -----	1,25,26

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

5 February 1999

Date of mailing of the international search report

15/02/1999

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Francois, J

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/ 22568

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 27-33,57-62
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 27-33,57-62
are directed to a method of treatment of the human/animal
body, the search has been carried out and based on the alleged
effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such
an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
restricted to the invention first mentioned in the claims: it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 98/22568

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